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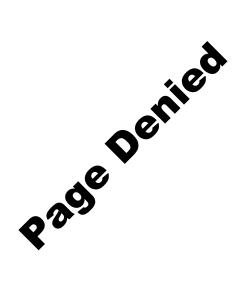
PHOTOGRAPHIC INTERPRETATION REPORT

CHRONOLOGY OF AIRFRAME PLANT II6 ARSENYEV, USSR

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INTRODUCTION

This report is a study of the chronological development of Airframe Plant 116, Arsenyev, USSR 44-08-53N 133-15-11E) and is one of a series of reports on Soviet missile and aircraft production and test facilities.

Airframe Plant 116 is in the valley of the Daubikhe River in the Soviet Far East on the southern edge of the city of Arsenyev (Figure 1). The plant encompasses approximately 128 acres and is both road and rail served. Plant 116 is laid out on a rectangular pattern that can facilitate future expansion, and additional building sites can also be provided by the unused portion of the adjacent Arsenyev Airfield. This sod airfield, approximately 5,600 feet in length, is used primarily as a test and flyaway field. Although there is a great deal of land available for development, only 3 major construction changes have occurred at this plant since 1954: an addition to a large workshop; completion of a new subassembly building; and the expansion of the main final assembly/subassembly building.

At the present time Airframe Plant 116 comprises 49 buildings with approximately 1.2 million square feet of roof cover (Figure 2). The main final assembly/subassembly building contains 600,000 square feet of roof cover and construction work is still continuing on new sections of the building. When the additions are completed on this large fabrication building, it will contain approximately 0.75 million square feet of covered floor space. In addition to numerous warehouses and support buildings, there are 12 production-type buildings. The only engine test facility identified at the plant was removed during early 1964 to provide space for an addition to a large workshop. This installation does not have an active steam or electric powerplant; a possible powerplant noted at the site may be a diesel plant on a standby basis. The building-by-building construction history of the plant is presented graphically in Figure 3 and its associated table, which also provides details of construction within the plant; item numbers are keyed to Figure 3 and its table.

Prior to the large-scale photographic coverage of this installation, there was no photographic evidence indicating the final product of Plant 116. Collateral sources had linked the plant with the production of YAK-18 (MAX) trainers. 1/2 Recent photography, however, has confirmed that Plant 116 is involved in both aircraft and missile production. In May 1966, AN-14 (CLOD) aircraft were identified at this plant for the first time. The number and location of the AN-14 aircraft within the plant suggested that these aircraft were being manufactured here. An open source later confirmed that Arsenyev was indeed the production site for the AN-14. 2/ Thirty-two probable SS-N-2 (STYX) crates, aligned in 2 rows in the south-central portion of the plant, were also identified on photography of May 1966. These crates have a peaked top and a protrusion on one end and

CHRONOLOGY OF AIRFRAME PLANT 116 ARSENYEV, USSR

(Figure 4). The identification of this type crate also confirmed collateral information which associated the plant with missile production. 3/ On large-scale photography of August 1967, approximately 36 probable STYX missile crates were identified adjacent to a hangar/workshop.

HIGHLIGHTS OF THE DEVELOPMENT OF AIRFRAME PLANT 116

The first photographic coverages of Airframe Plant 116 were obtained in April 1954 $\frac{4}{2}$ and December 1956. No additional photography was obtained until September 1961, the date of the first KEYHOLE mission over this installation. Since that date Plant 116 has been imaged on 28 photographic missions. The interpretability of the small-scale photography has varied greatly from mission to mission; however, recent excellent large-scale coverage has been obtained.

have both yielded a great amount of detail about the plant.

1954-1956

Arsenyev Airframe Plant 116 was first observed on large-scale photography of April 1954 and more than 2 years later on photog-

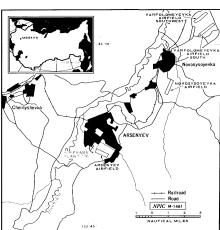


FIGURE 1. LOCATION OF ARSENYEV AIRFRAME PLANT 116, USSR.

raphy of December 1956. In 1956 the plant contained approximately 790,000 square feet of roof cover. Facilities identified at the plant in 1956 included a final assembly/subassembly building (item 40), an engine test building, an administration building, a checkout hangar, 10 workshops, several warehouses, and support buildings. The only significant change observed in the plant during this 2-year period was the construction of a storage tank in the northeast corner.

1956-1961

The first KEYHOLE photography of Plant 116 was obtained on age was poor and precluded the identification of all but gross features. The only changes discernible were the addition to a workshop (item 28) and the initial construction work on an addition to the final assembly/subassembly building (item 40).

1962

Better quality photography permitted the identification of several small support buildings on photography Construction was continuing on the final assembly/subassembly building in August, construction was noted on an addition to a shop building (item 33). By November 1962, the new subassembly section (item 40c) was almost completed.

was the only photographic coverage of the plant during 1963. The additions to the final assembly/subassembly building appeared complete when observed at that time. Roof cover of this building had been increased by more than 70 percent, making the overall dimensions for this building

Construction was continuing on the addition to the shop building (item 33b). Discernible footings indicated that this building would be almost 800 feet in length upon its completion. A small support building (item 34) was identified for the first time.

1964

Several small new support buildings were identified on photography of February 1964. An engine test building had been razed to provide space for the large new addition to the shop building (item 33b). This construction appeared to be complete when observed in November. The size and roof configuration indicated that this building would be utilized as a machine shop and subassembly area. Footings observed on the southeast side of the final assembly/subassembly building (item 40) indicated further expansion.

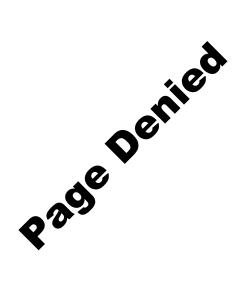
1965

The new subassembly section (item 40e) which was under construction in November 1964 was completed 1 year later in November 1965. As seen in December, construction was begun on a contiguous final assembly hall (item 40d).

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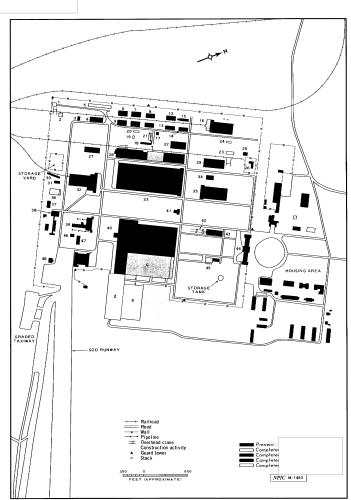
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Roof Cover (sq ft) Dimensions *

(ft)
L W H Explanatory Notes Description Bldg probably complete directly in front of bldg Support bldg
Support bldg
Support bldg
Warehouse/workshop
Storage shed
Warehouse
Warehouse Small section added to S end between 1956 and 1962; roof vents visible on N end of bldg 23 24 25 26 27 28 Small addition erected between Dec 56 and Jun 63 29 30 31 32 33 a Length aprx High-bay section 40 ft high Engine test bldg removed by Feb 64 to permit new construction; 33b apparently complete 34 35 Support bldg Machineshop Covered conveyer/pipeline connects this bldg to another small structure. In size Structure with unusual irregular shape, large-diameter pipe parallels E side of bldg and enters structure on N; N section has hangar doors for aircraft entry Considered complete
Considered complete
Considered complete
Considered complete
to eaves, door opening 145 ft wide, does not appear to be operational.
Two bays being added to this section, additional construction activity visible adjacent to it *Horizontal measurements less than 50 ft are accurate to within and vertical measurements are accurate to within ± 5 ft; all other measurements are accurate to within ± 5 ft or 5%, whichever is greater.



**Unless otherwise noted, the date first observed is the first date the item was recognizable as a structure and is also the date apparently complete, the date apparently complete is the first date the structure outwardly appeared complete, although it may not be related to the date the structure was operational.

FIGURE 3. LAYOUT OF AIRFRAME PLANT 116.

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No significant changes were observed at the plant during 1966. Construction was continuing on the new final assembly hall. The taxiway to the airfield and parking areas was improved.

1967

The final assembly hall was completed by August 1967. The recently completed subassembly section (item 40e) was again undergoing expansion. A concrete apron was being constructed from the taxiway to the final assembly hall doors.

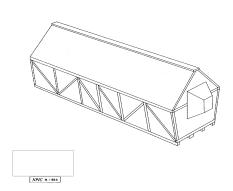
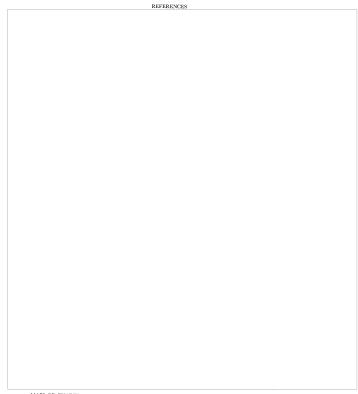


FIGURE 4. PERSPECTIVE OF SS-N-2 STYX CRATE.



MAPS OR CHARTS
ACIG. USATC, Series 200, Sheet 0282-22

- ACIC. USATC, Series 200, Sheet verse-see

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